

Thyristor Presspack stack

## SEMISTACK® CLASSICS - W3C

Three phase reverse parallel thyristor converter

### Preliminary Data

Ordering No. 08785202  
Description SKS 1540F W3C 1335 V16

### Features

- Non-isolated power stacks
- SKT 1200/16
- Heatsink P18/180
- Forced air cooling
- RC circuit included
- Thermal trip included

### Typical Applications

- Soft starters

### Remarks

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee, expressed or implied, is made regarding delivery, performance or suitability.

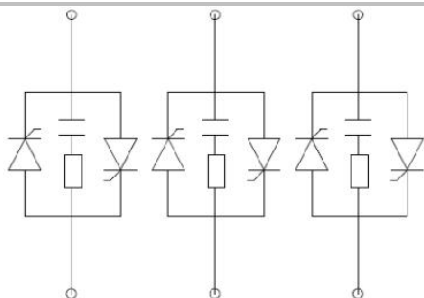
| Electrical Characteristics |  |   |     |       |     |           |
|----------------------------|--|---|-----|-------|-----|-----------|
| Symbol                     | Conditions                                       |   | min | typ   | max | Unit      |
| Electrical Data            |  |   |     |       |     |           |
| $I_{OUT}$                  | Maximum output current                           | $T_{AMBIENT} = 35^{\circ}C$ ; No overload |     | 1 540 |     | $A_{RMS}$ |
| $V_{AC}$                   | Maximum AC voltage (+/-10%)                      |   |     | 500   |     | $V_{AC}$  |
| $P_{TOTAL}$                | Maximum stack power                              |   |     | 1 335 |     | kW        |
| $P_{LOSS}$                 | Stack power loss ( $T_{AMBIENT} = 35^{\circ}C$ ) |   |     |       |     | W         |

| Environmental Data |   |  |     |             |       |      |
|--------------------|---|--|-----|-------------|-------|------|
| Symbol             | Conditions                                |  | min | typ         | max   | Unit |
| Mechanical Data    |   |  |     |             |       |      |
| Drawing            | SEMIKRON document number.revision.version |  |     | 93040200.02 |       | -    |
| Weight             | Approximate total weight                  |  |     | 71.6        |       | kg   |
| Altitude           | Installation altitude without derating    |  |     |             | 1 000 | m    |
| Protection         | IEC 60529                                 |  |     | IP00        |       | -    |
| Pollution Degree   | EN 50178                                  |  |     | 2           |       | -    |

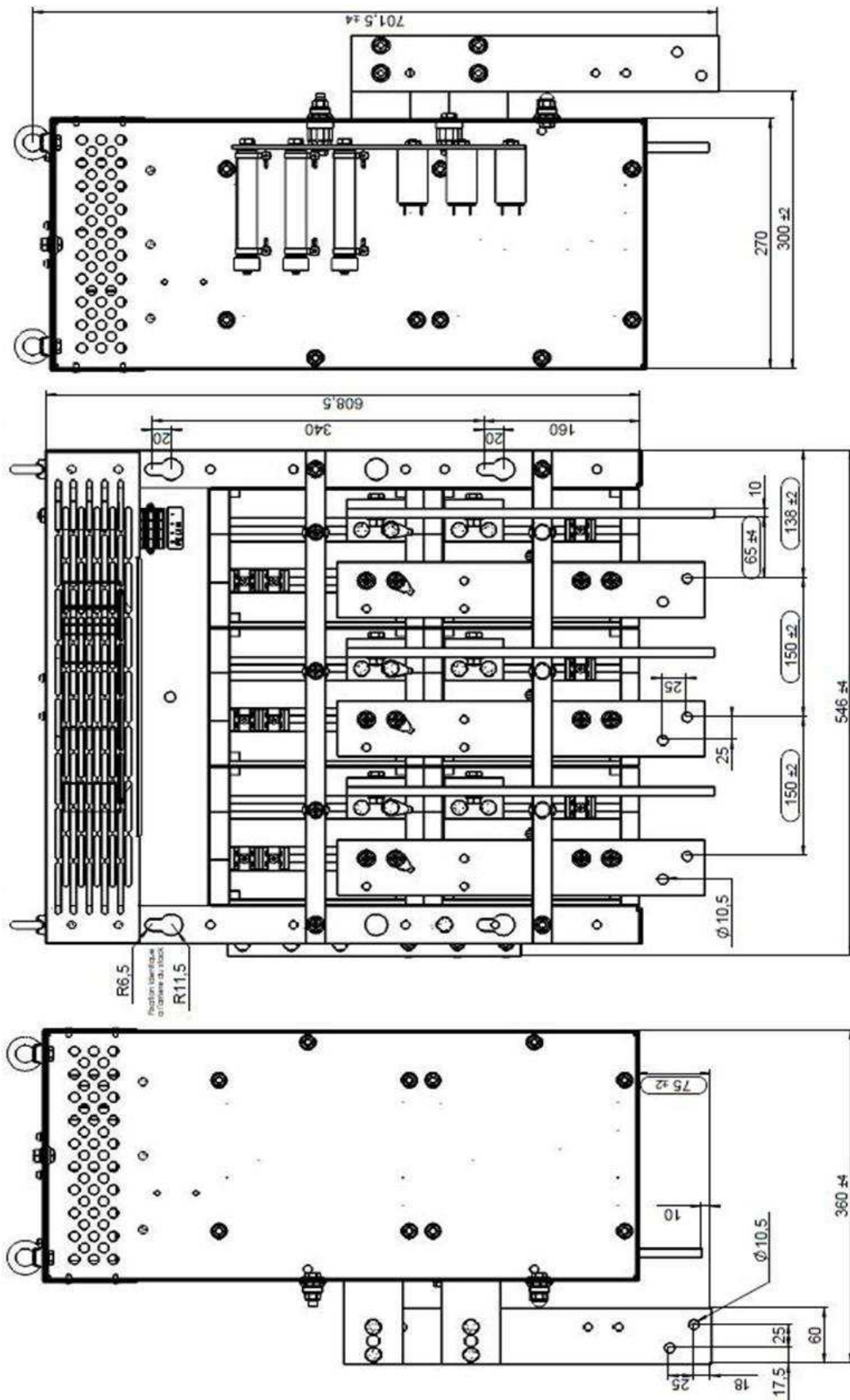
| Fan Data  |                           |               |          |
|-----------|---------------------------|---------------|----------|
| Type      | SEMIKRON fan designation  | SKF N4-230-03 | -        |
| $V_{FAN}$ | Fan voltage               | 230           | $V_{AC}$ |
| $f_{FAN}$ | Fan frequency             | 50/60         | Hz       |
| $I_{FAN}$ | Fan maximum input current | 1.1/1.71      | A        |
| $P_{FAN}$ | Fan power                 | 250/390       | W        |

| Stack Protection |                                 |  |     |      |     |         |
|------------------|---------------------------------|--|-----|------|-----|---------|
| Symbol           | Conditions                      |  | min | typ  | max | Unit    |
| RC Circuit       |                                 |  |     |      |     |         |
| Type             | RC in parallel with each switch |  |     | -    |     | -       |
| R                | Resistance (80W)                |  |     | 33   |     | Ohm     |
| C                |                                 |  |     | 0.47 |     | $\mu F$ |

| Bimetal Thermal Trip |   |     |     |     |             |
|----------------------|---|-----|-----|-----|-------------|
| Symbol               | Conditions  | min | typ | max | Unit        |
| $T_S$                | Switching temperature over which thermal trip is open |     | 100 |     | $^{\circ}C$ |
| $I_{TC MAX}$         | Maximum permissible current at 240VAC                 |     | 1   |     | A           |
|                      | Maximum permissible current at 30VDC                  |     | 3   |     | A           |



W3C



Dimensions

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